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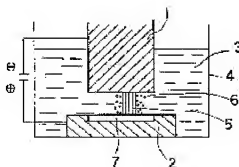
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(54) HIGH CORROSION RESISTING SURFACE FINISHING METHOD

(57)Abstract:

PURPOSE: To provide a high corrosion resisting surface finishing method, by which a surface condition adjusting processing and formation of a discharge machining alloy layer can be performed simultaneously, taking an element having good corrosion resistance, an alloy having the element or a conductive ceramics as an electrode using a discharge machining method in order to improve the corrosion resistance and stress corrosion cracking resistance.

CONSTITUTION: The surface of a member 2 to be processed formed by an iron (Fe) base alloy such as a carbon steel, a low-alloy steel, an austenitic stainless steel or a ferritic stainless steel, a nickel(Ni) base alloy or a cobalt(Co) base alloy is discharge-machined in oil 3 or water 3 using an electrode 1 having at least one high corrosion resisting element to remove the initial surface of the member and form an electric discharge machining alloy layer 7



excellent in corrosion resistance on the surface.